INSL4 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	INSL4, Blocking Peptide
Full Product Name	INSL4 Blocking Peptide
Product Gene Name	INSL4 blocking peptide
Product Synonym Names	early placenta insulin like peptide (EPIL); Early placenta insulin like peptide A chain; Early placenta insulin like peptide; Early placenta insulin like peptide B chain; Early placenta insulin-like peptide A chain; EPIL; INSL4; INSL4_HUMAN; insulin like 4; insulin like 4 (placenta); Insulin like peptide 4; Insulin-like peptide 4; OTTHUMP00000021025; Placentin
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	INSL4 peptide (MBS9624203) is used for blocking the activity of INSL4 antibody (MBS9605486)
Molecular Weight	15,445 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (5231419..5233967). Location: 9p24
OMIM	600910
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for INSL4 blocking peptide	Blocking/Control
Related Product Information for INSL4 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of INSL4 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for INSL4 purchase	MBS9624203 is a blocking peptide targeting INSL4.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INSL4. It may not necessarily be applicable to this product.

NCBI GI #	4504711
NCBI GeneID	3641
NCBI Accession #	NP_002186.1

UniProt Primary Accession #	Q14641
UniProt Secondary Accession #	Q5W127; A8K678
UniProt Related Accession #	Q14641
GenBank Nucleotide #	NM_002195.1
NCBI Official Full Name	early placenta insulin-like peptide
NCBI Official Synonym Full Names	insulin-like 4 (placenta)
NCBI Official Symbol	INSL4
NCBI Official Synonym Symbols	EPIL; PLACENTIN
UniProt Protein Name	Early placenta insulin-like peptide
UniProt Synonym Protein Names	Insulin-like peptide 4; Placentin
Protein Family	Early placenta insulin-like peptide
UniProt Gene Name	INSL4
UniProt Synonym Gene Names	EPIL
UniProt Entry Name	INSL4_HUMAN
NCBI Protein Information	early placenta insulin-like peptide; insulin-like peptide 4; early placenta insulin-like peptide (EPIL)
NCBI Summary for INSL4	INSL4 encodes the insulin-like 4 protein, a member of the insulin superfamily. INSL4 encodes a precursor that undergoes post-translational cleavage to produce 3 polypeptide chains, A-C, that form tertiary structures composed of either all three chains, or just the A and B chains. Expression of INSL4 products occurs within the early placental cytotrophoblast and syncytiotrophoblast. [provided by RefSeq, Jul 2008]
UniProt Comments for INSL4	INSL4: May play an important role in trophoblast development and in the regulation of bone formation. Belongs to the insulin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 9p24 Cellular Component: extracellular space Molecular Function: insulin-like growth factor receptor binding; hormone activity; receptor binding Biological Process: cell proliferation; cell-cell signaling; multicellular organismal development; female pregnancy; signal transduction
Research Articles on INSL4	**1.** A tight interaction between HER-2 gene and EPIL in invasive breast cancer cells is probable.
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